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Under the Paperwork Reduction Act \$1995, no pers required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449A/PTO 10/645,250 Application Number INFORMATION DISCLOSURE August 20, 2003 Filing Date STATEMENT BY APPLICANT First Named Inventor Mahajan et al. (use as many sheets as necessary) 1636 Art Unit Examiner Name Ramin Akhavan (1) of Sheet Attorney Docket Number 57953/1151

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				U.S. PATENT DOCU	MENT	S		····
Examiner Initials*	Cite No. 1	U.S. Patent Document  Number - Kind Code <sup>2</sup> (if known)		Publication Date MM-DD-YYYY		Name of Patentoe or Applicant of Cited Docume	Pages, Columns, Lines Relevam Passages or I Figures Appea	Relevant
GG	1	US-4,788,222				Rice et al.		· · · · · · · · · · · · · · · · · · ·
GG	2	US-6,335,194				Bennett et al.		
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Examiner Initials*	Cite No.	Foreign Patent Document  Kind C  Country Code <sup>3</sup> Number <sup>4</sup> (if kn	Code <sup>3</sup>	Publication Date MM-DD-YYYY		Name of Parentee or licant of Cited Document	Pages, Cohumns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
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GG	3		NZICK et al., "AIB1, A Steroid Receptor Coactivator Amplified in Breast and Ovarian cancer," Science 277:965-968 (1997)					
GG	4	ARANDA et al., "Nuc 81:1269-1304 (2001)	ARANDA et al., "Nuclear Hormone Receptors and Gene Expression," Physiol. Rev. 1:1269-1304 (2001)					
GG	5		RAVIND, "The BED Finger, A Novel DNA-Binding Domain in Chromatin-Boundary-lement-Binding Proteins and Transposases," <i>Trends Biochem. Sci.</i> 25:421-423 (2000)					
GG	6	BLANCO et al., "The Genes Dev. 12:1638-1			F is a	Nuclear Receptor	r Coactivator,"	
GG	7	CAIRA et al., "Clonin Coactivator," J. Biol.					uclear Receptor	
GG	8	CHAKRAVARTI et a 383:99-103 (1996)	ıl., "R	ole of CBP/P300 i	n Nuc	clear Receptor Sig	nalling," Nature	
GG	9	CHEN et al., "Regulat 284:2174-2177 (1999)		f Transcription by	a Pro	tein Methyltransfe	crase," Science	

Examiner	(05/06/0006)	Date	05/26/2006
Signature / Guy Guidry/	(05/26/2006)	Considered	05/26/2006

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Attorney Docket Number

	_	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.)., date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
GG	10	DARIMONT et al., "Structure and Specificity of Nuclear Receptor-Coactivator Interactions," Genes Dev. 12:3343-3356 (1998)	
GG	11	ELBASHIR et al., "RNA Interference is Mediated by 21- and 22-Nucleotide RNAs," Gene Dev. 15(2):188-200 (2001)	
GG	12	FENG et al., "Hormone-Dependent Coactivator Binding to a Hydrophobic Cleft on Nuclear Receptors," Science 280:1747-1749 (1998)	
GG	13	FONDELL et al., "Ligand Induction of a Transcriptionally Active Thyroid Hormone Receptor Coactivator Complex," Proc. Natl. Acad. Sci. USA 93:8329-8333 (1996)	
GG	14	FORMAN et al., "Half-Site Spacing and Orientation Determines Whether Thyroid Hormone and Retinoic Acid Receptors and Related Factors Bind to DNA Response Elements as Monomers, Homodimers, or Heterodimers," <i>Mol. Endocrinol.</i> 6:429-442 (1992)	
GG	15	GENBANK ACCESSION NO. AAM54490 (10-SEP-2002)	
GG	16	GENBANK ACCESSION NO. AF245115 (24-JUN-2000)	
GG	17	GENBANK ACCESSION NO. AF309071 (10-SEP-2002)	
GG	18	GENBANK ACCESSION NO. AF395833 (16-SEP-2002)	
GG	19	GENBANK ACCESSION NO. AY079168 (15-SEP-2002)	
GG	20	GENBANK ACCESSION NO. bankit447054 (14-FEB-2002)	
GG	21	GENBANK ACCESSION NO. U27196 (31-MAY-1996)	
GG	22	GENBANK ACCESSION NO. XP_215941 (28-JAN-2003)	
GG	23	GYURIS et al., "Cdi1, A Human G1 and S Phase Protein Phosphatase that Associates with Cdk2," Cell 75:791-803 (1993)	

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INFO	FORMATION DISCLOSURE FATEMENT BY APPLICANT (use as many sheets as necessary)	Application Number	10/645,250		
				Filing Date	August 20, 2003
SIAI	FORMATION DISCLOSURE ATEMENT BY APPLICANT	First Named Inventor	Mahajan et al.		
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				Examiner Name	Ramin Althoren G. Guidry
Sheet	3	of	5	Attorney Docket Number	57953/1151

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.)., date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
GG	24	HADZIC et al., "A 10-Amino-Acid Sequence in the N-Terminal A/B Domain of Thyroid Hormone Receptor a is Essential for Transcriptional Activation and Interaction with the General Transcription Factor TFIIB," Mol. Cell. Biol. 15:4507-4517 (1995)	
GG	25	HANSTEIN et al., "p300 is a Component of an Estrogen Receptor Coactivator Complex," Proc. Natl. Acad. Sci. USA 93:11540-11545 (1996)	
GG	26	HARLOW et al., Antibodies: A Laboratory Manual, Cold Springs Harbor Laboratory, New York (1988) (Table of Contents only)	
GG	27	HART et al., "Evidence for an Antagonistic Relationship Between the Boundary Element-Associated Factor BEAF and the Transcription Factor DREF," Chromosoma 108:375-383 (1999)	
GG	28	HEERY et al., "A Signature Motif in Transcriptional Co-Activators Mediates Binding to Nuclear Receptors," <i>Nature</i> 387:733-736 (1997)	
GG	29	IWASAKI et al., "Identification and Characterization of RRM-Containing Coactivator Activator (CoAA) as TRBP-Interacting Protein, and its Splice Variant as a Coactivator Modulator (CoAM)," J. Biol. Chem. 276:33375-33383 (2001)	
GG	30	JUNG et al., "Molecular Coning and Characterization of CAPER, A Novel Coactivator of Activating Protein-1 and Estrogen Receptors," J. Biol. Chem. 277:1229-1234 (2002)	
GG	31	KAMEI et al., "A CBP Integrator Complex Mediates Transcriptional Activation and AP-1 Inhibition by Nuclear Receptors," Cell 85:403-414 (1996)	
GG	32	KO et al., "Thyroid Hormone Receptor-Binding Protein, an LXXLL Motif-Containing Protein, Functions as a General Coactivator," <i>Proc. Natl. Acad. Sci. USA</i> 97:6212-6217 (2000)	
GG	33	LEE et al., "A Nuclear Factor, ASC-2, is a Cancer-Amplified Transcriptional Coactivator Essential for Ligand-Dependent Transactivation by Nuclear Receptors in vivo," J. Biol. Chem. 274:34283-34293 (1999)	
GG	34	LI et al., "NRIF3 is a Novel Coactivator Mediating Functional Specificity of Nuclear Hormone Receptors," Mol. Cell. Biol. 19:7191-7202 (1999)	
GG	35	LILL et al., "Binding and Modulation of p53 by p300/CBP Coactivators," Nature 387:823-827 (1997)	

Examiner Signature	/Guy Guidry/ (05/26/2006)	Date Considered	05/26/2006	$\Box$

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		Filing Date	August 20, 2003
		First Named Inventor	Mahajan et al.
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		Examiner Name	Romin Akhavan G. C14id11
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GG	36	MAHAJAN & SAMUELS, "Nuclear Hormone Receptor Coregulator: Role in Hormone Action, Metabolism, Growth, and Development," <i>Endocrine Reviews</i> 26(4):583-597 (2005)	
GG	37	MAHAJAN et al., "A New Family of Nuclear Receptor Coregulators That Integrate Nuclear Receptor Signaling through CREB-Binding Protein," Mol. Cell Biol. 20(14):5048-5063 (2000)	
GG	38	MAHAJAN et al., "NRC-Interacting Factor 1 Is a Novel Cotransducer That Interacts with and Regulates the Activity of the Nuclear Hormone Receptor Coactivator NRC," Mol. Cell. Biol. 22(19):6883-6894 (2002)	
GG	39	MAHAJAN et al., "The Nuclear Hormone Receptor Coactivator NRC Is a Pleiotropic Modulator Affecting Growth, Development, Apoptosis, Reproduction, and Wound Repair," Mol. Cell. Biol. 24(11):4994-5004 (2004)	
GG	40	MATZKE et al., "RNA-Based Silencing Strategies in Plants," Curr. Opin. Genet. Dev.11(2):221-227 (2001)	
GG	41	McINERNEY et al., "Determinants of Coactivator LXXLL Motif Specificity in Nuclear Receptor Transcriptional Activation," Genes Dev. 12:3357-3368 (1998)	
GG	42	McKENNA et al., "Nuclear Receptor Coregulators: Cellular and Molecular Biology," Endocr. Rev. 20:321-344 (1999)	
GG	43	MONTGOMERY et al, "RNA as a Target of Double-Stranded RNA-Mediated Genetic Interference in Caenorhabditis elegans," <i>Proc. Natl. Acad. Sci. USA</i> 95: 15502-15507 (1998)	
GG	44	NEUMANN et al., "Gene Transfer into Mouse Lyoma Cells by Electroporation in High Electric Fields," <i>EMBO J.</i> 1: 841-45 (1982)	
GG	45	PARK et al., "Signal-Induced Transcriptional Activation by Dif Requires the dTRAP80 Mediator Module," Mol. Cell. Biol. 23(4):1358-1367 (2003)	
GG	46	PERKINS et al., "Regulation of NF-kappaB by Cyclin-Dependent Kinases Associated With the p300 Coactivator," Science 275:523-527 (1997)	
GG	47	PUIGSERVER et al., "A Cold-Inducible Coactivator of Nuclear Receptors Linked to Adaptive Thermogenesis," Cell 92:829-839 (1998)	

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Examiner	/Guy Guidry/ (05/26/2006)	Date	05/26/2006	ı
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1	NFORMATION DISCLOSURE STATEMENT BY APPLICANT			Filing Date	August 20, 2003
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				Examiner Name	Ramin Althoren G. Gridey
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GG	48	SCHAPIRA et al., "In Silico Discovery of Novel Retinoic Acid Receptor Agonist Structures," BMC Structural Biology 1:1 (2001)	
GG	49	SCHAPIRA et al., "Rational Discovery of Novel Nuclear Hormone Receptor Antagonists," PNAS 97(3):1008-1013 (2000)	
GG	50	TABARA et al., "RNAi in C. elegans: Soaking in the Genome Sequence," Science 282:430-431 (1998)	
GG	51	TIMMONS & FIRE, "Specific Interference by Ingested dsRNA," Nature 395:854-855 (1998)	
GG	52	TORCHIA et al., "The Transcriptional Co-Activator p/CIP Binds CBP and Mediates Nuclear-Receptor Function," <i>Nature</i> 387:677-684 (1997)	
GG	53	TUSCHL, "RNA Interference and Small Interfering RNAs," Chembiochem 2: 239-245 (2001)	
GG	54	WANG et al., "Methylation of Histone H4 at Arginine 3 Facilitating Transcriptional Activation by Nuclear Hormone Receptor," Science 293:853-857 (2001)	
GG	55	WONG et al., "Electric Field Mediated Gene Transfer," Biochem. Biophys. Res. Commun. 107(2):584-7 (1982)	
GG	56	YANG et al., "A p300/CBP-Associated Factor that Competes with the Adenoviral Oncoprotein E1A," <i>Nature</i> 382:319-324 (1996)	
GG	57	ZAMORE et al., "RNAi: Double Stranded RNA Directs the ATP-Dependent Cleavage of mRNA at 21 to 23 Nucleotide Intervals," Cell 101:25-33 (2000)	
GG	58	ZHANG et al., "Two Contact Regions Between Stat1 and CBP/p300 in Interferon Gamma Signaling," Proc. Natl. Acad. Sci. USA 93:15092-15096 (1996)	
GG	59	ZHU et al., "Cloning and Characterization of PIMT, A Protein With a Methyltransferase Domain, Which Interacts With and Enhances Nuclear Receptor Coactivator PRIP Function," Proc. Natl. Acad. Sci. USA 98:10380-10385 (2001)	
GG	60	ZHU et al., "Isolation and Characterization of Peroxisome Proliferator-Activated Receptor (PPAR) Interacting Protein (PRIP) as a Coactivator for PPAR," J. Biol. Chem. 275:13510-13516 (2000)	

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Examiner Signature	/Guy Guidry/ (05/26/2006)	Date Considered	05/26/2006

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